

**Amendments to the Specification**

Page 17, please amend paragraph starting on line 15 and ending on line 23, as follows:

An alternative method for functionalization involves flowing surface functionalization treatments through the elastomeric flow channels [[28]] over the resonator surfaces. New flow channels [[44]] are optically aligned to the resonator arrays 12 so that only specific resonators 10 are below the channels [[44]] through which the chemical surface treatment is pumped. Although selective reagents have also been deposited by stamping, photo-assisted chemical deposition or lithographic deposition through masks in the past, fountain pens 42 provide the best flexibility for deposition of large numbers of different functionalizing polymers.